

IN THE CLAIMS

Please amend the claims as follows:

1. (Cancelled).

2. (Currently Amended) A database access control method for performing access control on a database in response to a request from a user apparatus through cooperation between a database access control apparatus and a proxy process server apparatus, comprising:

sending, in the database access control apparatus, an address of a usable proxy process server apparatus to the user apparatus in response to the request from the user apparatus;

connecting the user apparatus to the proxy process server apparatus of the address to make a database access request;

making, in the proxy process server apparatus, a database process request to the database access control apparatus according to the database access request from the user apparatus;

performing, in the database access control apparatus, a process on the database in response to the database process request from the proxy process server apparatus, and sends a process result to the proxy process server apparatus; and

performing, in the proxy process server apparatus, an additional process on the process result sent from the database access control apparatus, and sending an additional process result to the user apparatus;

~~The database access control method as claimed in claim 1, wherein,~~

generating, in the database access control apparatus, generates an access key based on a user ID of the user apparatus, stores the access key in a storing part of the database access control apparatus and sends the access key to the user apparatus;

sending, in the user apparatus, sends the access key to the proxy process server apparatus when making the database access request to the proxy process server apparatus;

sending, in the proxy process server apparatus, sends the access key to the database access control apparatus when making the database process request to the database access control apparatus; and

determining, in the database access control apparatus, determines whether an access key the same as the access key received from the proxy process server apparatus exists in the storing part, and executes an access to data in the database within a limit permitted for the user ID corresponding to the access key only if the access key exists in the storing part.

3. (Currently Amended) The database access control method as claimed in claim 2, wherein, further comprising:

determining, in the database access control apparatus, determines whether the user apparatus is in a state of being connected to the proxy process server apparatus in addition to performing determination of the access key, and performs performing the access to the data in the database only if the user apparatus is in the state of being connected to the proxy process server apparatus.

4. (Cancelled).

5. (Currently Amended) The database access control apparatus as claimed in claim 4, further comprising:

A database access control apparatus for performing access control on a database in response to a request from a user apparatus through cooperation with a proxy process server apparatus, comprising:

means for instructing the user apparatus to connect to the proxy process server apparatus by sending an address of a usable proxy process server apparatus to the user apparatus in response to a request from the user apparatus;

means for performing a process on the database in response to a database process request from the proxy process server apparatus, and sending a process result to the proxy process server apparatus;

means for generating an access key based on a user ID of the user apparatus, storing the access key in a storing part of the database access control apparatus and sending the access key to the user apparatus when sending the address of the proxy process ~~sever~~ server apparatus to the user apparatus;

means for receiving the access key and the database process request from the proxy process ~~sever~~ server apparatus, and determining whether an access key the same as the access key received from the proxy process server apparatus exists in the storing part; and

means for executing an access to data in the database within a limit permitted for the user ID corresponding to the access key only if the access key exists in the storing part.

6. (Original) The database access control apparatus as claimed in claim 5, wherein, the database access control apparatus determines whether the user apparatus is in a state of being connected to the proxy process server apparatus in addition to performing determination of the access key, and performs the access to the data in the database only if the user apparatus is in the state of being connected to the proxy process server apparatus.

7-8. (Cancelled)

9. (Currently Amended) ~~The computer readable storage medium as claimed in claim 8, the program causing the computer to execute:~~

A computer readable storage medium encoded with a program for causing a computer to execute a database access control process for performing access control on a database in response to a request from a user apparatus through cooperation with a proxy process server apparatus, the program comprising:

instructing the user apparatus to connect to the proxy process server apparatus by sending an address of a usable proxy process server apparatus to the user apparatus in response to a request from the user apparatus;

performing a process on the database in response to a database process request from the proxy process server apparatus, and sending a process result to the proxy process server apparatus;

a step for generating an access key based on a user ID of the user apparatus, storing the access key in a storing part of the database access control apparatus and sending the access key to the user apparatus when sending the address of the proxy process sever server apparatus to the user apparatus;

a step for receiving the access key and the database process request from the proxy process sever server apparatus, and determining whether an access key the same as the access key received from the proxy process server apparatus exists in the storing part; and

a step for executing an access to data in the database within a limit permitted for the user ID corresponding to the access key only if the access key exists in the storing part.

10. (Currently Amended) The computer readable storage medium as claimed in claim 9, the program causing the computer to execute a step comprising:

~~a step for~~ determining whether the user apparatus is in a state of being connected to the proxy process server apparatus in addition to performing determination of the access key, and performing the access to the data in the database only if the user apparatus is in the state of being connected to the proxy process server apparatus.

11-13. (Canceled)

14. (Currently Amended) The database access control method as claimed in claim 2, further comprising:

~~wherein overwriting or erasing, in~~ the database access control apparatus, ~~overwrites or erases~~ the access key stored in the storing part after performing the process on the database in response to the database process request from the proxy server apparatus.

15. (Currently Amended) The database access control method as claimed in claim 2, further comprising:

~~overwriting or erasing, wherein in~~ the database access control apparatus, ~~overwrites or erases~~ the access key stored in the storing part when the database access control apparatus is accessed by the user apparatus next.

16. (Currently Amended) The database access control method as claimed in claim 2, further comprising:

overwriting or erasing, in wherein the database access control apparatus, overwrites or
erases the access key stored in the storing part when the database access control apparatus
receives a next request from the user apparatus.

17. (Previously Presented) The database access control apparatus as claimed in claim 5, further comprising:

means for overwriting or erasing the access key stored in the storing part of the database access control apparatus after the database access control apparatus performs the process on the database in response to the database process request from the proxy server apparatus.

18. (Previously Presented) The database access control apparatus as claimed in claim 5, further comprising:

means for overwriting or erasing the access key stored in the storing part of the database access control apparatus when the database access control apparatus is accessed by the user apparatus next.

19. (Currently Amended) The database access control method apparatus as claimed in claim 5, further comprising:

means for overwriting or erasing the access key stored in the storing part of the database access control apparatus when the database access control apparatus receives a next request from the user apparatus.

20. (Currently Amended) The computer readable storage medium as claimed in claim [[8]] 9, the program causing the computer to further execute a step comprising:

~~a step for~~ overwriting or erasing the access key stored in the storing part of the database access control apparatus after the database access control apparatus performs the process on the database in response to the database process request from the proxy server apparatus.

21. (Currently Amended) The computer readable storage medium as claimed in claim [[8]] 9, the program causing the computer to further execute a step comprising:

~~a step for~~ overwriting or erasing the access key stored in the storing part of the database access control apparatus when the database access control apparatus is accessed by the user apparatus next.

22. (Currently Amended) The computer readable storage medium as claimed in claim [[8]] 9, the program causing the computer to further execute a step comprising:

~~a step for~~ overwriting or erasing the access key stored in the storing part of the database access control apparatus when the database access control apparatus receives a next request from the user apparatus.

23. (New) A system, comprising:

a database access control apparatus configured to send an address of a usable proxy process server apparatus to a user apparatus in response to a request from the user apparatus; the user apparatus is configured to connect to the proxy process server apparatus of the address to make a database access request;

the proxy process server apparatus is configured to make a database process request to the database access control apparatus according to the database access request from the user apparatus;

the database access control apparatus is configured to perform a process on the database in response to the database process request from the proxy process server apparatus, and is configured to send a process result to the proxy process server apparatus; and

the proxy process server apparatus is configured to perform an additional process on the process result sent from the database access control apparatus, and is configured to send an additional process result to the user apparatus,

wherein the database access control apparatus is configured to generate an access key based on a user ID of the user apparatus, to store the access key in a storing part of the database access control apparatus and to send the access key to the user apparatus,

the user apparatus is configured to send the access key to the proxy process server apparatus when making the database access request to the proxy process server apparatus,

the proxy process server apparatus is configured to send the access key to the database access control apparatus when making the database process request to the database access control apparatus, and

the database access control apparatus is configured to determine whether an access key the same as the access key received from the proxy process server apparatus exists in the storing part, and to execute an access to data in the database within a limit permitted for the user ID corresponding to the access key only if the access key exists in the storing part.